

FIG. 1

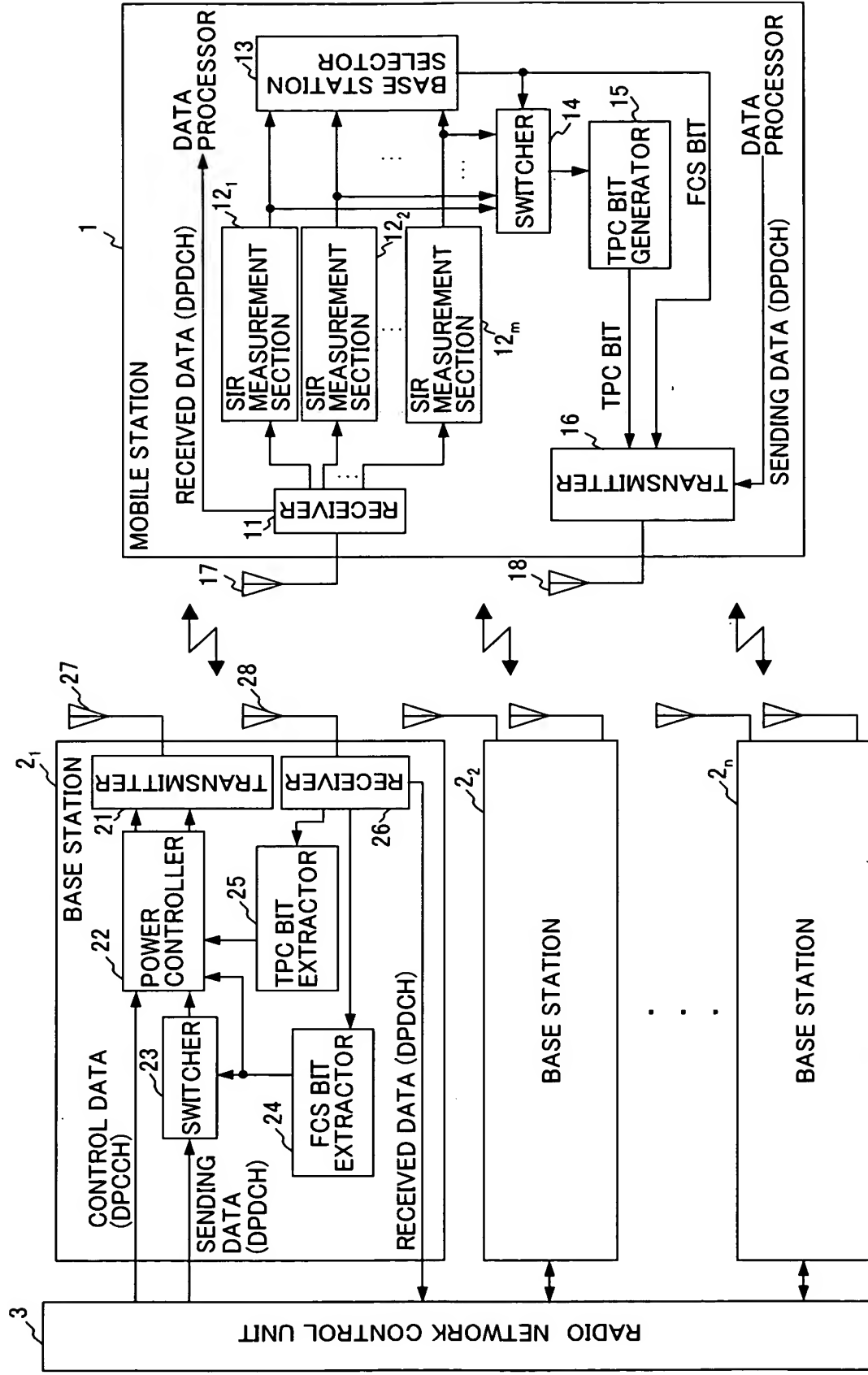


FIG. 2A

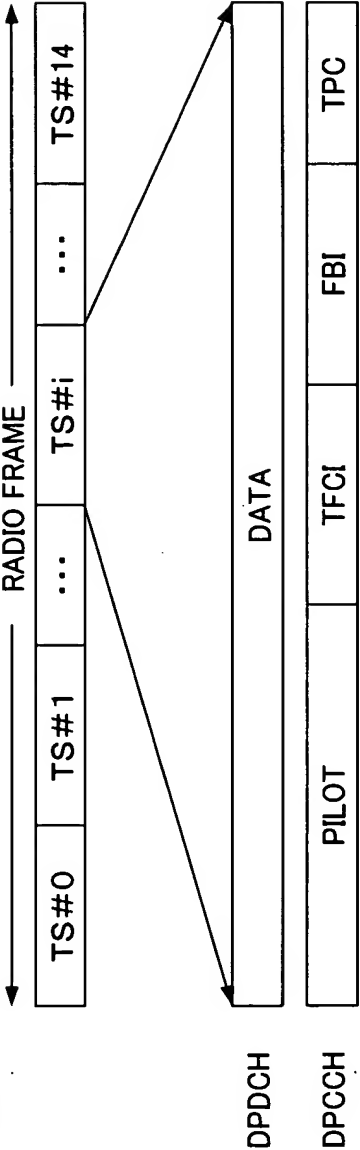


FIG. 2B



FIG. 3

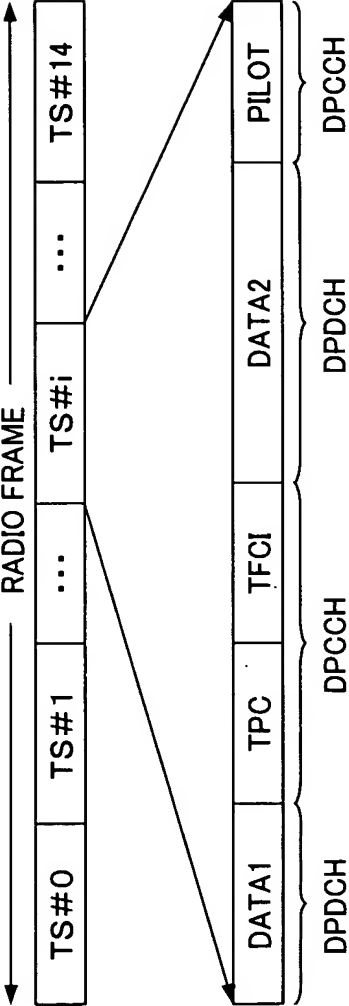


FIG. 4A

| BASE STATION | TPC BIT | DPDCH POWER CONTROL | DPCCH POWER CONTROL |
|---------------------|---------|------------------------|------------------------|
| PRIMARYCELL | 1 | +1dB | +1dB |
| | 0 | -1dB | -1dB |
| NON- PRIMARYCELL | 1 | OFF | +1dB |
| | 0 | OFF | 0dB |

FIG. 4B

| BASE STATION | TPC BIT | DPDCH POWER CONTROL | DPCCH POWER CONTROL |
|---------------------|---------|------------------------|------------------------|
| PRIMARYCELL | 1 | +1dB | +1dB |
| | 0 | -1dB | -1dB |
| NON- PRIMARYCELL | 1 | OFF | +0.5dB |
| | 0 | OFF | -0.5dB |

FIG. 4C

| BASE STATION | TPC BIT | DPDCH POWER CONTROL | DPCCH POWER CONTROL |
|---------------------|---------|------------------------|------------------------|
| PRIMARYCELL | 1 | +1dB | +1dB |
| | 0 | -1dB | -1dB |
| NON- PRIMARYCELL | 1 | OFF | 0dB |
| | 0 | OFF | 0dB |

The diagram illustrates a mobile station (1) and multiple base stations (2₁, 2₂, ..., 2_n) connected to a radio network control unit (3).

Mobile Station (1):

- RECEIVED DATA (DPDCH):** Input to the **RECEIVER** (11).
- RECEIVER** (11) outputs to multiple **POWER MEASUREMENT SECTION** blocks (19₁, 19₂, ..., 19_m).
- Each **POWER MEASUREMENT SECTION** (19_i) outputs to a **BASE STATION** selector (20).
- The **BASE STATION** selector (20) outputs to a **SWITCHER** (14).
- The **SWITCHER** (14) outputs to a **TPC BIT GENERATOR** (30).
- The **TPC BIT GENERATOR** (30) outputs a **TPC BIT** to the **TRANSMITTER** (16).
- The **TPC BIT GENERATOR** (30) also outputs an **FCS BIT** to the **TRANSMITTER** (16).
- The **TRANSMITTER** (16) outputs **SENDING DATA (DPDCH)** to the **DATA PROCESSOR**.
- The **DATA PROCESSOR** outputs **RECEIVED DATA (DPDCH)** back to the **RECEIVER** (11).

Base Station (2₁):

- CONTROL DATA (DPCCH):** Input to the **SWITCHER** (23).
- SENDING DATA (DPDCH):** Input to the **SWITCHER** (23).
- The **SWITCHER** (23) outputs to the **POWER CONTROLLER** (22).
- The **POWER CONTROLLER** (22) outputs to the **TRANSMITTER** (21).
- The **TRANSMITTER** (21) outputs **RECEIVED DATA** to the **RECEIVER** (26).
- The **RECEIVER** (26) outputs to the **FCS BIT EXTRACTOR** (24) and the **TPC BIT EXTRACTOR** (25).
- The **FCS BIT EXTRACTOR** (24) outputs to the **POWER CONTROLLER** (22).
- The **TPC BIT EXTRACTOR** (25) outputs to the **POWER CONTROLLER** (22).
- The **POWER CONTROLLER** (22) outputs to the **SWITCHER** (23).
- The **SWITCHER** (23) outputs to the **TRANSMITTER** (21).

Radio Network Control Unit (3):

- Connected to the **BASE STATION** selector (20) of the mobile station (1).
- Connected to the **TRANSMITTER** (16) of the mobile station (1).
- Connected to the **RECEIVER** (26) of base station 2₁.
- Connected to the **TRANSMITTER** (21) of base station 2₁.
- Connected to the **RECEIVER** (26) of base station 2₂.
- Connected to the **TRANSMITTER** (21) of base station 2₂.
- Connected to the **RECEIVER** (26) of base station 2_n.
- Connected to the **TRANSMITTER** (21) of base station 2_n.

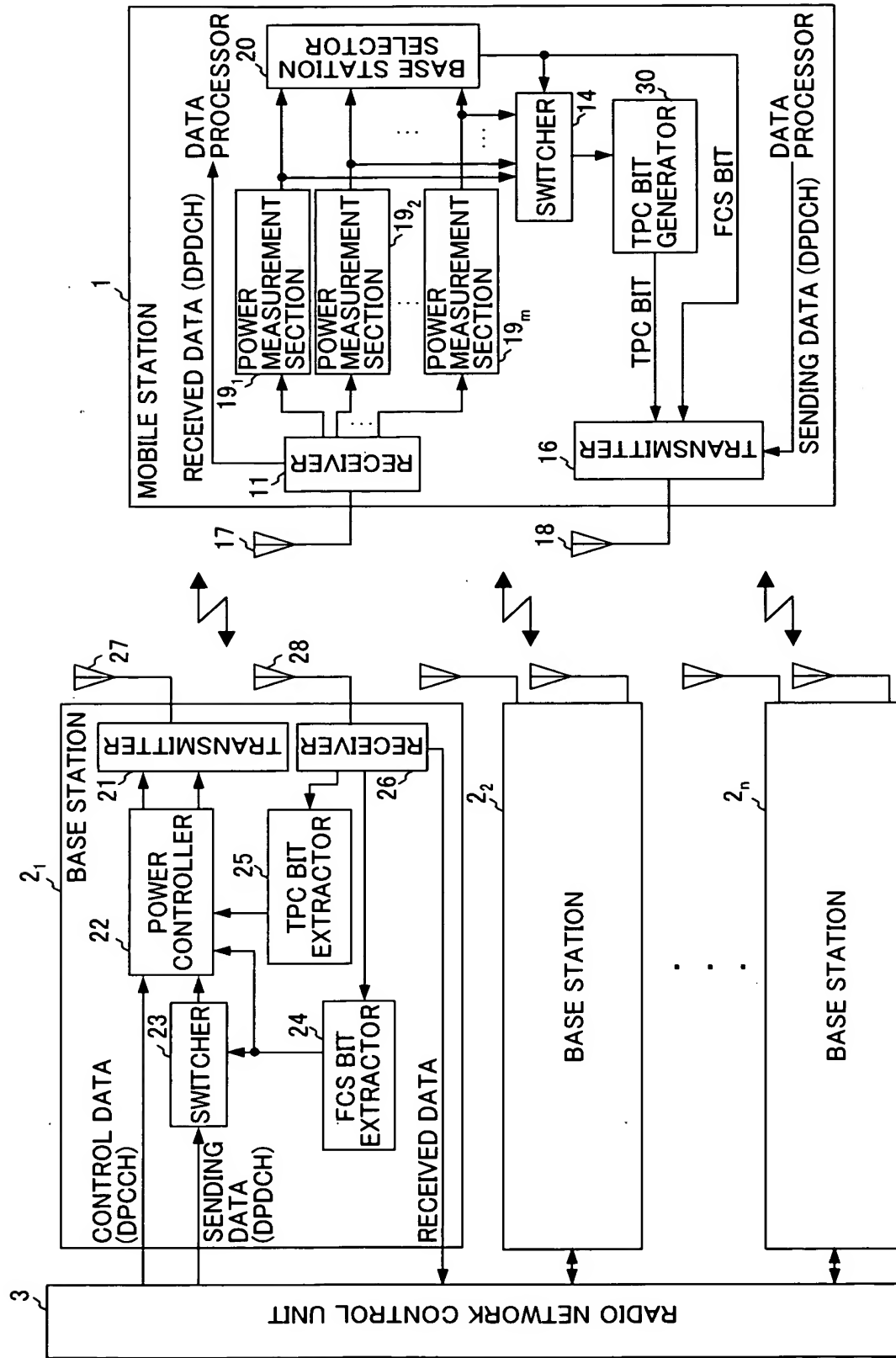


FIG. 6

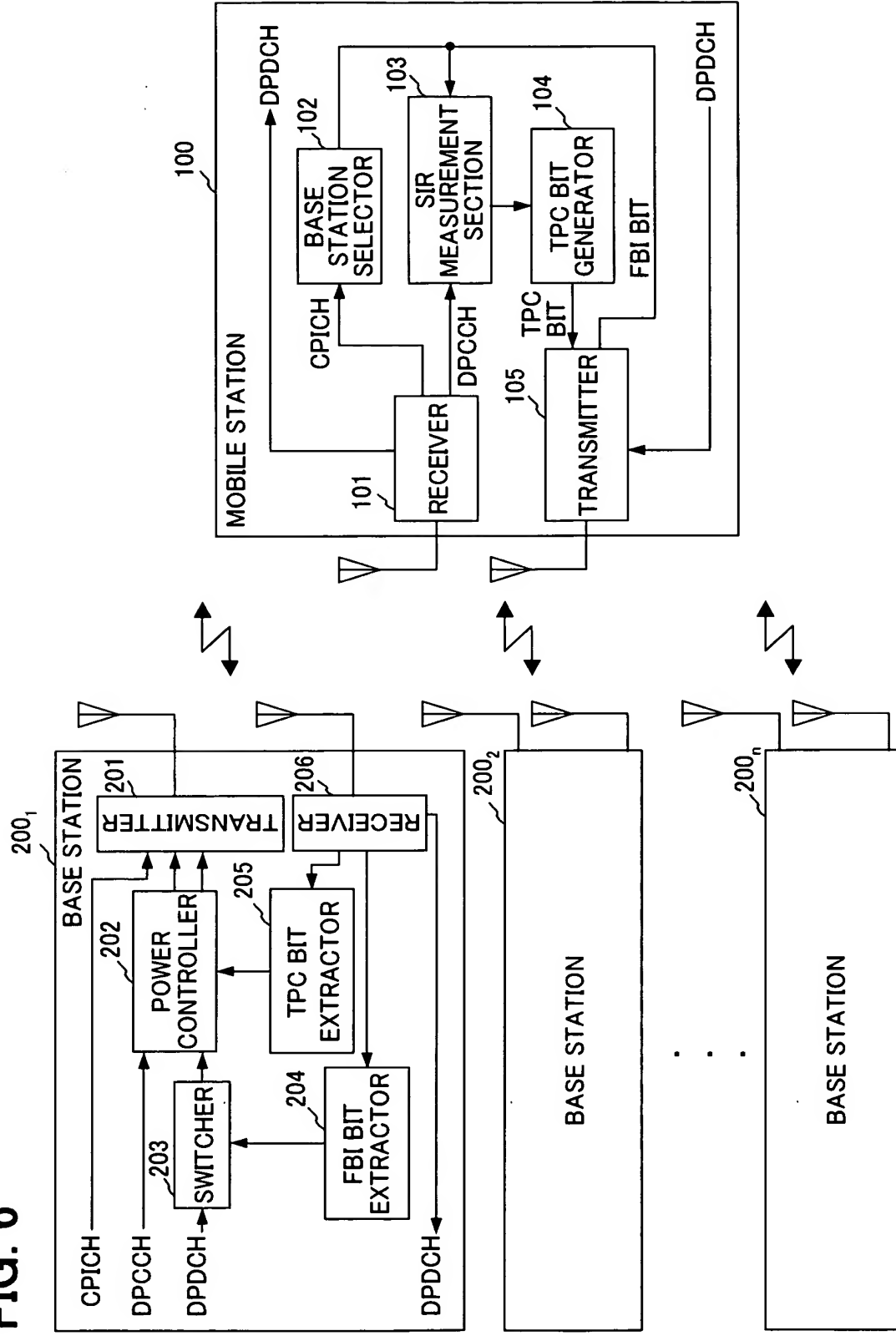


FIG. 7

| BASE STATION | TPC BIT | DPDCH POWER CONTROL | DPCCH POWER CONTROL |
|---------------------|---------|------------------------|------------------------|
| PRIMARYCELL | 1 | +1dB | +1dB |
| | 0 | -1dB | -1dB |
| NON- PRIMARYCELL | 1 | OFF | +1dB |
| | 0 | OFF | -1dB |